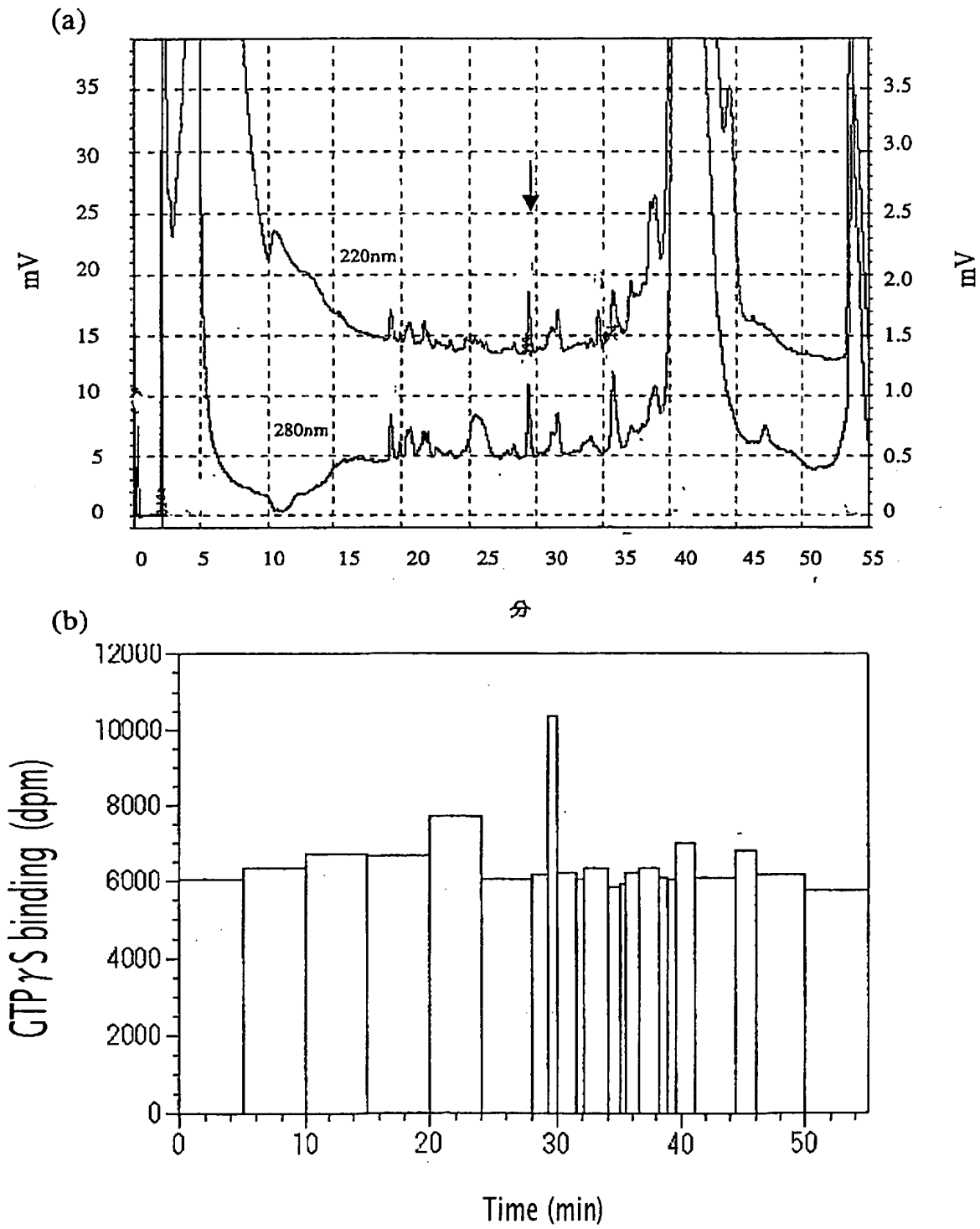


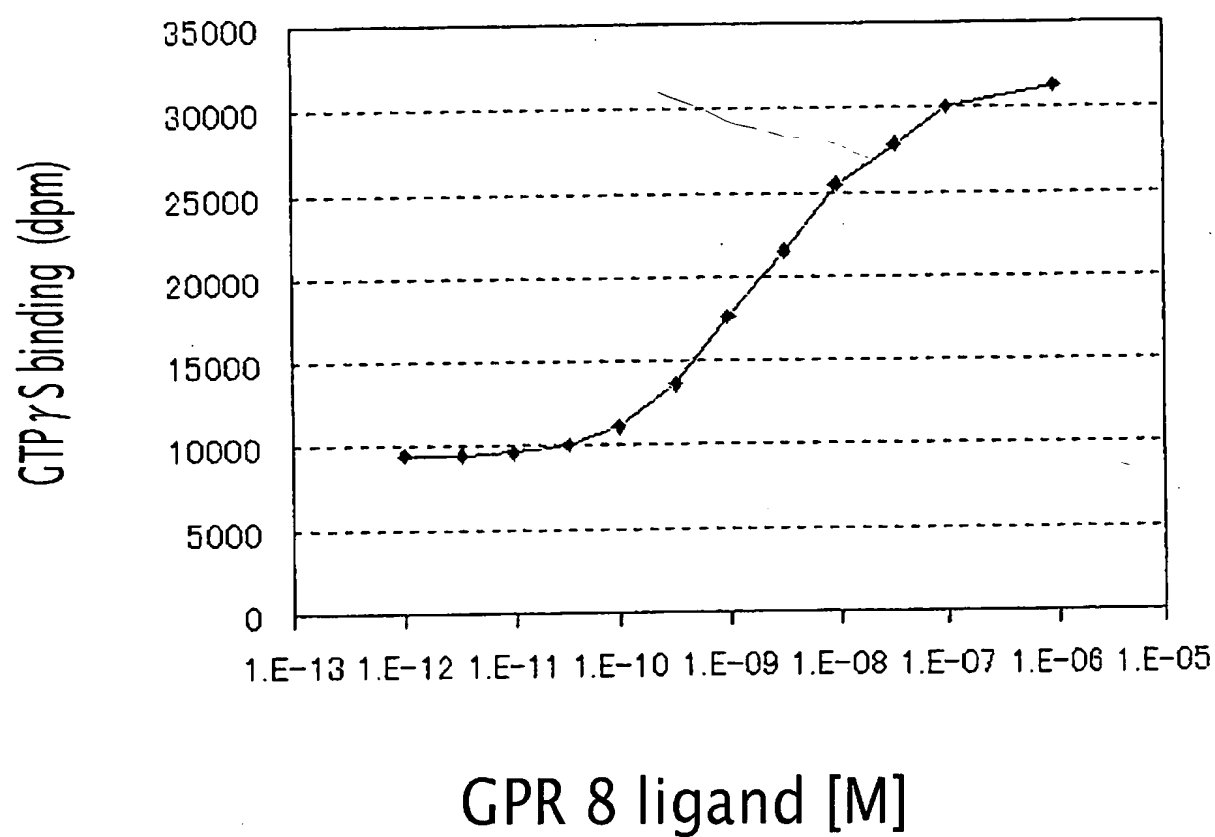
1/27

Fig. 1



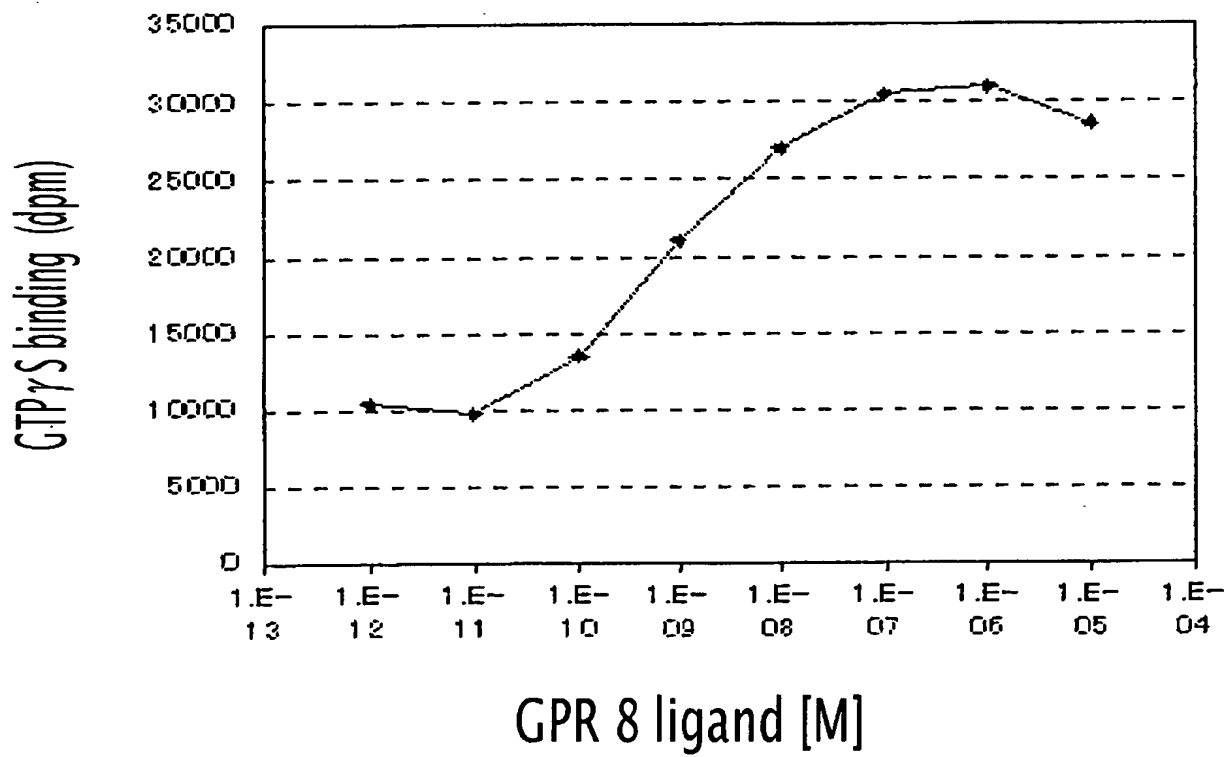
2/27

Fig. 2



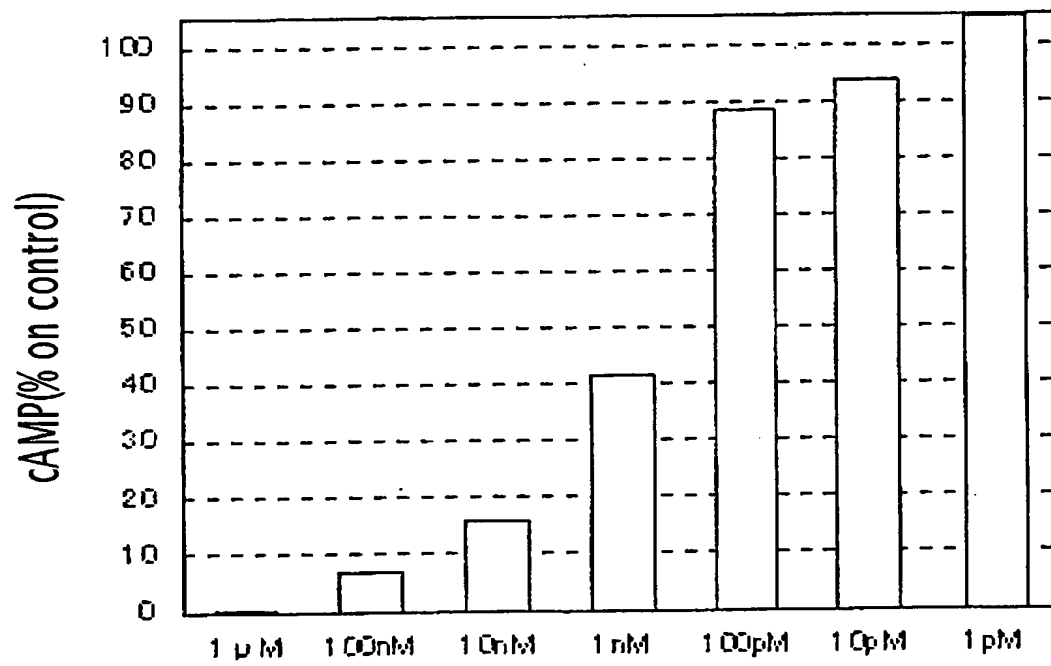
3/27

Fig. 3



4/27

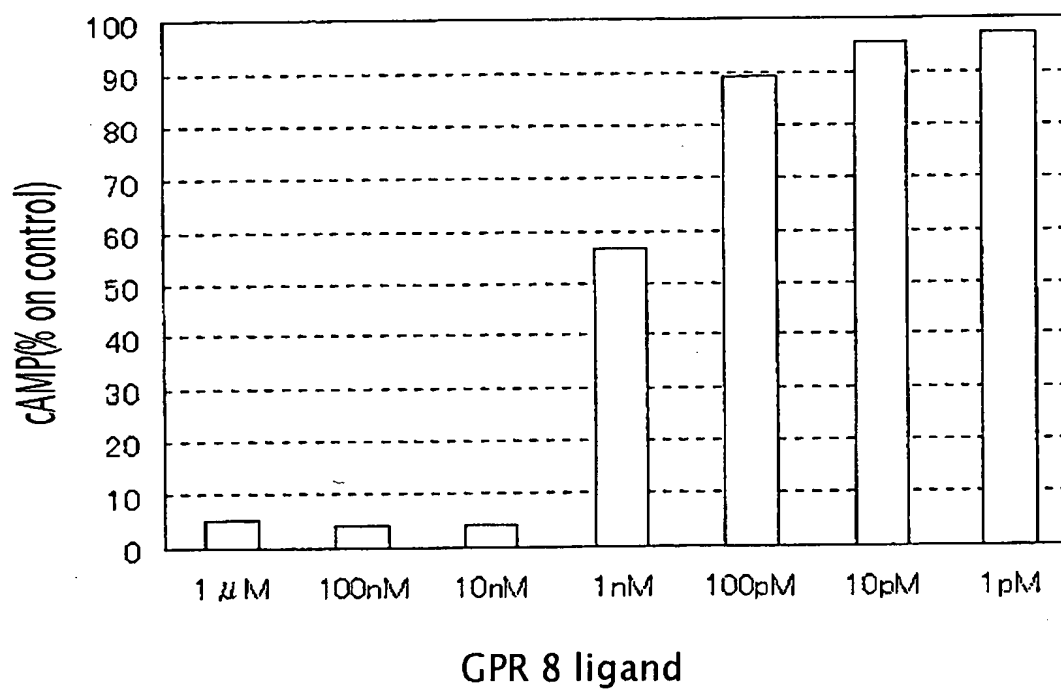
Fig. 4



GPR 8 ligand

5/27

Fig. 5



6/27

## Fig. 6

GGC GGG GCC ACC GAG CGG TTA TAG CTG GGC CTG CAG GGG ACC 42  
 CAC GGC TCG CCT CCA GCC TCC TGC GCT CCG GTA CCT GGG CGT CCC AAC TCC ACT GCG CGC 102  
 CCA AAC CCA GCC GAG CCG GTT CGT GGC CCG CCC CGC CGG GCG GCC GTC GAC GCG AGC GCC 162  
  
 CTG GCG TGG CGC CCA GGG GAG CGG GGG GCT CCC GCG AGC CGG CCG CGG CTG GCA CTG CTG 222  
 Leu Ala Trp Arg Pro Gly Glu Arg Gly Ala Pro Ala Ser Arg Pro Arg Leu Ala Leu Leu 20  
  
 CTG CTT CTG CTC CTG CTG CCG CTG CCC TCC GGC GCG TGG TAC AAG CAC GTG GCG AGT CCC 282  
 Leu Leu Leu Leu Leu Leu Pro Leu Pro Ser Gly Ala Trp Tyr Lys His Val Ala Ser Pro 40  
  
 CGC TAC CAC ACG GTG GGC CGC GCC GCT GGC CTG CTC ATG GGG CTG CGT CGC TCA CCC TAT 342  
 Arg Tyr His Thr Val Gly Arg Ala Ala Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr 60  
  
 CTG TGG CGC CGC GCG CTG CGC GCG GCC GCC GGG CCC CTG GCC AGG GAC ACC CTC TCC CCC 402  
 Leu Trp Arg Arg Ala Leu Arg Ala Ala Ala Gly Pro Leu Ala Arg Asp Thr Leu Ser Pro 80  
  
 GAA CCC GCA GCC CGC GAG GCT CCT CTC CTG CTG CCC TCG TGG GTT CAG GAG CTG TGG GAG 462  
 Glu Pro Ala Ala Arg Glu Ala Prp Leu Leu Leu Pro Ser Trp Val Gln Glu Leu Trp Glu 100  
  
 ACG CGA CGC AGG AGC TCC CAG GCA GGG ATC CCC GTC CGT GCG CCC CGG AGC CCG CGC GCC 522  
 Thr Arg Arg Arg Ser Ser Gln Ala Gly Ile Pro Val Arg Ala Pro Arg Ser Pro Arg Ala 120  
  
 CCA GAG CCT GCG CTG GAA CCG GAG TCC CTG GAC TTC AGC GGA GCT GGC CAG AGA CTT CGG 582  
 Pro Glu Pro Ala Leu Glu Pro Glu Ser Leu Asp Phe Ser Gly Ala Gly Gln Arg Leu Arg 140  
  
 AGA GAC GTC TCC CGC CCA GCG GTG GAC CCC GCA GCA AAC CGC CTT GGC CTG CCC TGC CTG 642  
 Arg Asp Val Ser Arg Pro Ala Val Asp Pro Ala Ala Asn Arg Leu Gly Leu Pro Cys Leu 160  
  
 GCC CCC GGA CCG TTC TGA CAG CGT CCC CCG CCC GCC CGT GGC GCC TCC GCG CCT GAC CCA 702  
 Ala Pro Gly Pro Phe \*\*\* 165  
  
 GGA GGA GTG GCC GCG CG 719

7/27

## Fig. 7

CC TCC GGA GCC AGT TCC TGG TCC GCC CCG CCG GGA GCC GTC AGC 44

ATG AAC CCC CGG GCA CGC GGC ATG GGA GCG CCG GGC CCG GGA CCG GGG GCC ACT GCG AGG 104  
Met Asn Pro Arg Ala Arg Gly Met Gly Ala Arg Gly Pro Gly Pro Gly Ala Thr Ala Arg 20

CGC CGG CTG CTG GCA TTG CTG TTA CTG CTG CTG CTG CTG CCG CTG CCC GCC CGT GCC TGG 164  
Arg Arg Leu Leu Ala Leu Leu Leu Leu Leu Leu Leu Pro Leu Pro Ala Arg Ala Trp 40

---

TAC AAG CAC ACG GCG AGT CCC CGC TAC CAC ACG GTG GGC CGC GCC GCG GGC CTG CTC ATG 224  
Tyr Lys His Thr Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala Ala Gly Leu Leu Met 60

---

GGG CTG CGC CGC TCG CCC TAC ATG TGG CGC CGC GCG CTG CGC CCG GCG GCC GGG CCC CTG 284  
Gly Leu Arg Arg Ser Pro Tyr Met Trp Arg Arg Ala Leu Arg Pro Ala Ala Gly Pro Leu 80

GCC TGG GAC ACT TTC GGC CAG GAC GTG CCC CCT CGG GGA CCC TCC GCC AGG AAC GCC CTC 344  
Ala Trp Asp Thr Phe Gly Gln Asp Val Pro Pro Arg Gly Pro Ser Ala Arg Asn Ala Leu 100

TCT CCG GGG CCC GCC CCT CGC GAC GCT CCG CTG CTT CCC CCC GGG GTT CAG ACA CTG TGG 404  
Ser Pro Gly Pro Ala Pro Arg Asp Ala Pro Leu Leu Pro Pro Gly Val Gln Thr Leu Trp 120

CAG GTG CGA CGC GGA AGC TTC CGC TCC GGG ATC CCG GTC AGT GCG CCC CGC AGC CCG CGC 464  
Gln Val Arg Arg Gly Ser Phe Arg Ser Gly Ile Pro Val Ser Aal Pro Arg Ser Pro Arg 140

GCC CGG GGG TCC GAG CCG CAA CCG GAA TTG GGC GCC TCT TCC TGG ACC TCG GCG GAG TAG 524  
Ala Arg Gly Ser Glu Pro Gln Pro Glu Leu Gly Ala Ser Ser Trp Thr Ser Ala Glu \*\*\* 159

ACC AGA GCC TTC GGA GAG TCT TCA GCT CAG CGG TGG TCT GC 565

8/27

## Fig. 8

	TGT AGT CGC ACC AAC TGA CTA GTC TCT TCC ATC CTC	36
CGG AGC TCC GAC GTT CTC GGG GAC ATA AAC CCT GTT CTT GTC CTA ACC CGC CAA GGG GCC		96
ATG GAC TTG AGC GCG CTG GCG TCG AGC AGA GAA GTA CGG GGC CCT GGG CCC GGG GCT CCG		156
Met Asp Leu Ser Ala Leu Ala Ser Ser Arg Glu Val Arg Gly Pro Gly Pro Gly Ala Pro		20
GTG AAC CGG CCC CTG CTA CCG CTA CTG CTG CTT CTG CTC TTG CTA CCT CTG CCC GCC AGC		216
Val Asn Arg Pro Leu Leu Pro Leu Leu Leu Leu Leu Leu Leu Pro Leu Pro Ala Ser		40
GCC TGG TAC AAG CAC GTG GCG AGC CCT CGC TAT CAC ACA GTG GGT CGT GCC TCC GGG CTG		276
Ala Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala Ser Gly Leu		60
CTC ATG GGG CTG CGC CGC TCG CCC TAC CTG TGG CGC CGT GCC TTG GGT GGG GCC GCT GGA		336
Leu Met Gly Leu Arg Arg Ser Pro Tyr Leu Trp Arg Arg Ala Leu Gly Gly Ala Ala Gly		80
CCG CTC GTG GGG CTC CCG GGA CAG ATG GCC CGC AGC GCT CTC CTG CTT CCT TCC CCC GGG		396
Pro Leu Val Gly Leu Pro Gly Gln Met Ala Arg Ser Ala Leu Leu Leu Pro Ser Pro Gly		100
CAG GAG CTG TGG GAG GTA CGA AGC AGG AGT TCA CCG GCA GGA CTT CCC GTG CAT GCA ACC		456
Gln Glu Leu Trp Glu Val Arg Ser Arg Ser Ser Pro Ala Gly Leu Pro Val His Ala Thr		120
CGG AGT CTG CGG GAC CTG GAG GGA GCC GGC CAA CCT GAG CAG TCG CTA AGC TTT CAG TCC		516
Arg Ser Leu Arg Asp Leu Glu Gly Ala Gln Pro Glu Gln Ser Leu Ser Phe Gln Ser		140
TGG ACT TCA GCA GAG CCC GCT GCT AGA GCC TTC GGT GAG ACG CTT CGT GCC CAG CCA TGG		576
Trp Thr Ser Ala Glu Pro Ala Ala Arg Ala Phe Gly Glu Thr Leu Arg Ala Gln Pro Trp		160
TTC CTG CAG CAA ATC ATC TTT GCC GAT CCT GTC AGG CTC GAC GAC CGT CTC AAG AAC CGA		636
Phe Leu Gln Gln Ile Ile Phe Ala Asp Pro Val Arg Leu Asp Asp Arg Leu Lys Asn Arg		180
TGG CGC CCC CGT GCT TGA CCT AAG CAG GAG CAC AGC TTG TAG CTC CAG		684
Trp Arg Pro Arg Ala ***		185



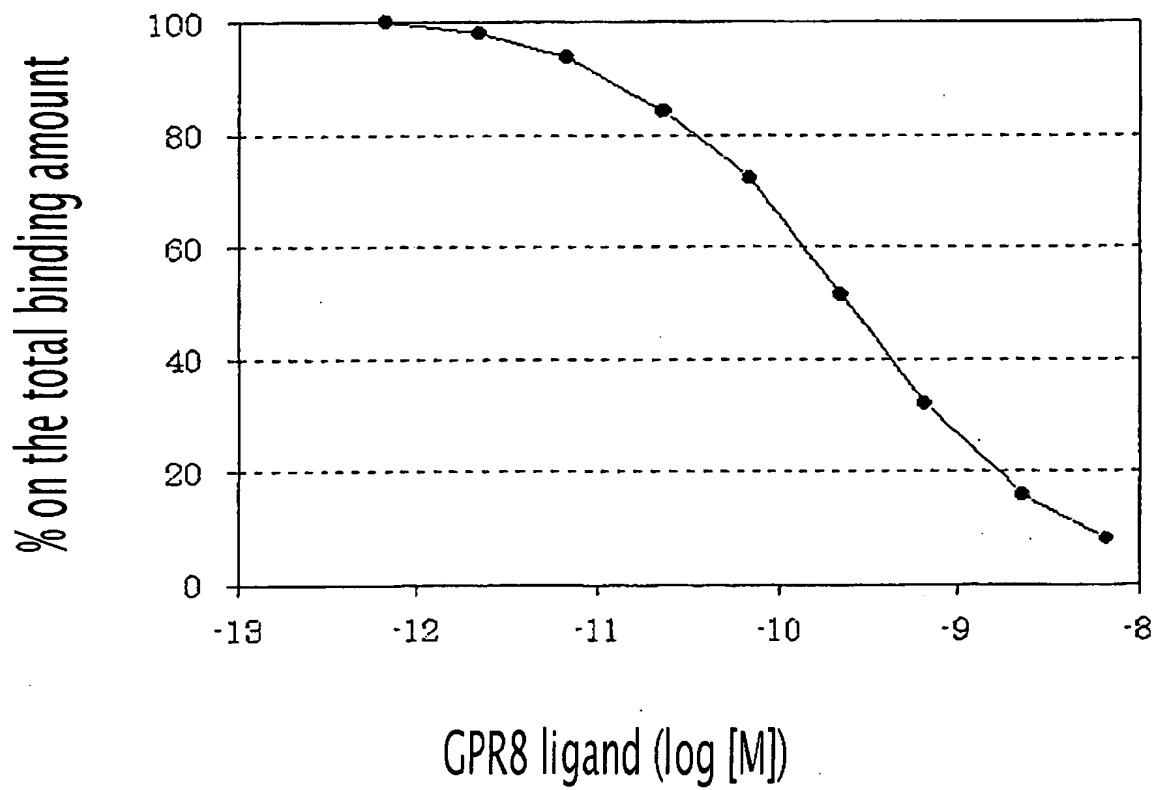
9/27

## Fig. 9

TGA CTG GTC TCC ATC CTC TGG AGC TCC GAC GTG CTC GTT	39
CTC GGA GAC ATA AAC CCA GTT CTT GTC CTA ACC CTC CAA GGG GCA ATT GAC GTG AGC GCG	99
CTG GCG TCT AAC AGA GAA GTA CGG GGC CCT GGG CCC GGG ACT CCC AGG AAC CGG CCC CTG	159
Leu Ala Ser Asn Arg Glu Val Arg Gly Pro Gly Pro Gly Thr Pro Arg Asn Arg Pro Leu	20
CTG CCC CTG CTG CTG CTT CTG CTC TTG CTA CCG CTG CCC GCC AGC GCC	219
Leu Pro Leu Leu Leu Leu Leu Leu Leu Leu Pro Leu Pro Ala Ser Ala	40
TGG TAT AAG CAC	
Trp Tyr Lys His	
GTG GCG AGT CCC CGC TAT CAC ACA GTG GGT CGT GCC TCC GGG CTG CTC ATG GGG CTG CGC	279
Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala Ser Gly Leu Leu Met Gly Leu Arg	60
CGC TCG CCC TAC CAG TGG CGC CGT GCC CTG GGC GGG GCT GCT GGA CCC CTC TCC CGG CTC	339
Arg Ser Pro Tyr Gln Trp Arg Arg Ala Leu Gly Gly Ala Ala Gly Pro Leu Ser Arg Leu	80
CCA GGA CCG GTC GCC CGC GGC GCT CTC CTG CTT CCT TCC TCA GGG CAG GAG CTG TGG GAG	399
Pro Gly Pro Val Ala Arg Gly Ala Leu Leu Leu Pro Ser Ser Gly Gln Glu Leu Trp Glu	100
GTA CGA AGC AGG AGC TCA CCT GCA GGG CTT CCC GTC CAT GCA CCC TGG AGT CCG CGG GAC	459
Val Arg Ser Arg Ser Ser Pro Ala Gly Leu Pro Val His Ala Pro Trp Ser Pro Arg Asp	120
CTG GAG GGA GTC CGC CAA CCG GAG CAG TCG CTA AGC CTT CAC TCC TGG ATC TCA GAG GAG	519
Leu Glu Gly Val Arg Gln Pro Glu Gln Ser Leu Ser Leu His Ser Trp Ile Ser Glu Glu	140
CCC GCT GCT AGA GCC TTC GGA GAG ACG CTT CGT GCC CAG CCA TGG TTC CTG CAG CAA GTC	579
Pro Ala Ala Arg Ala Phe Gly Glu Thr Leu Arg Ala Gln Pro Trp Phe Leu Gln Gln Val	160
ATC TTT GCC GAT CCT GTC AGG CCC AAG AAC CGA TGG CGC CCC CAT GCT TGA CCT AGG CAG	639
Ile Phe Ala Asp Pro Val Arg Pro Lys Asn Arg Trp Arg Pro His Ala **	176
GAG CAC AGC TTG AAG CTC CA	659

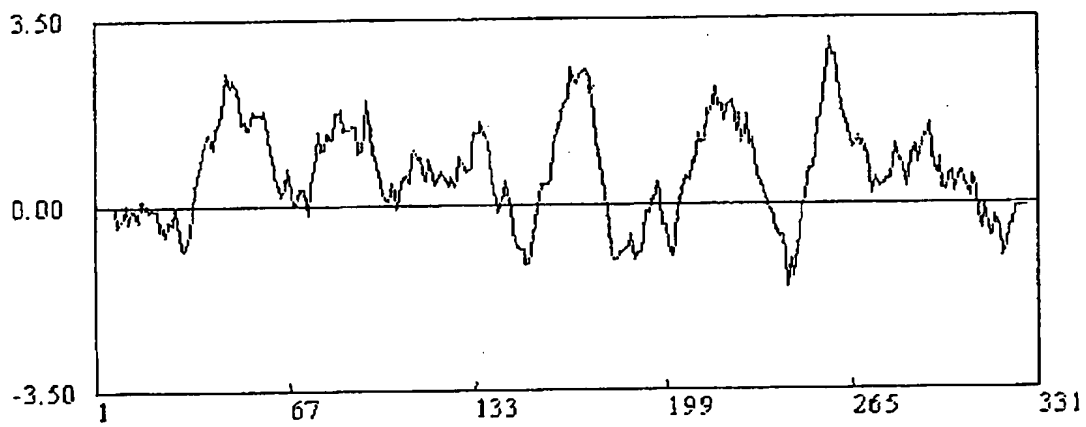
10/27

Fig. 10



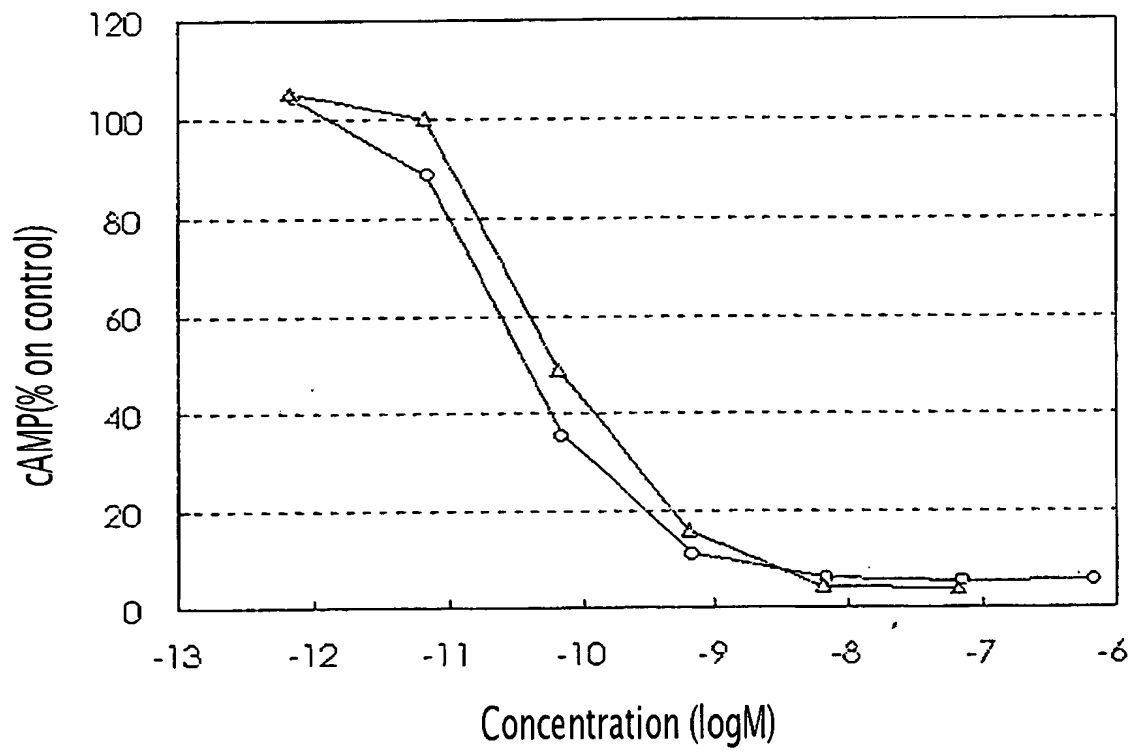
11/27

Fig. 11



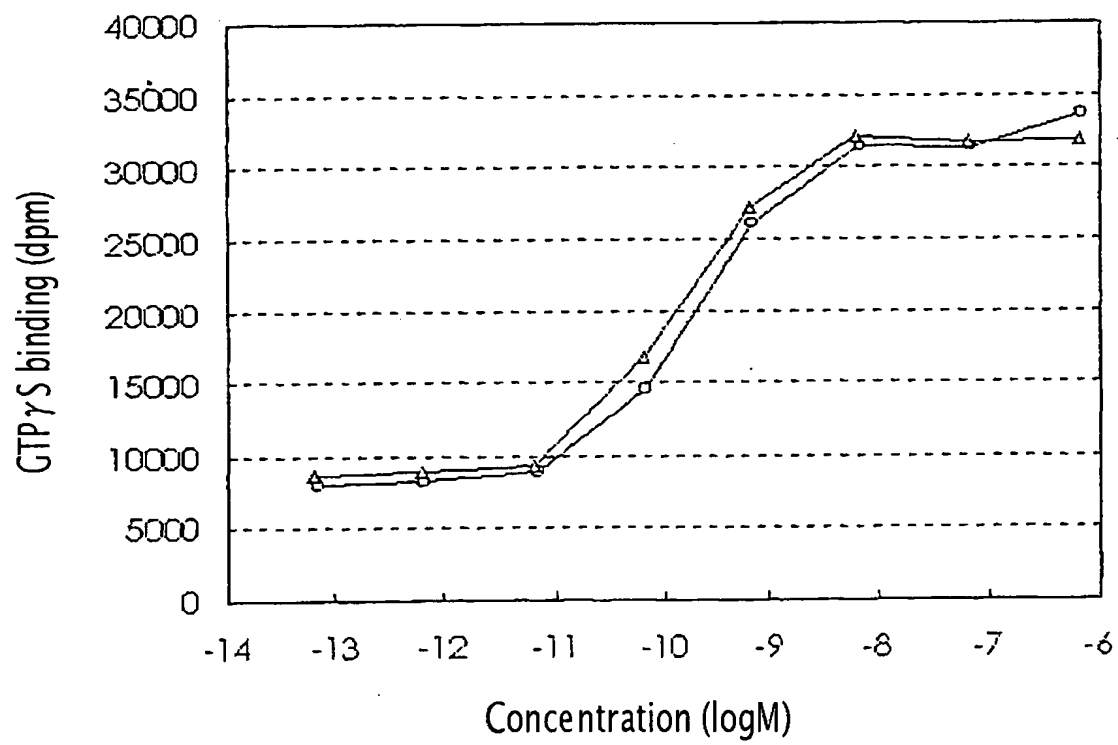
12/27

Fig. 12



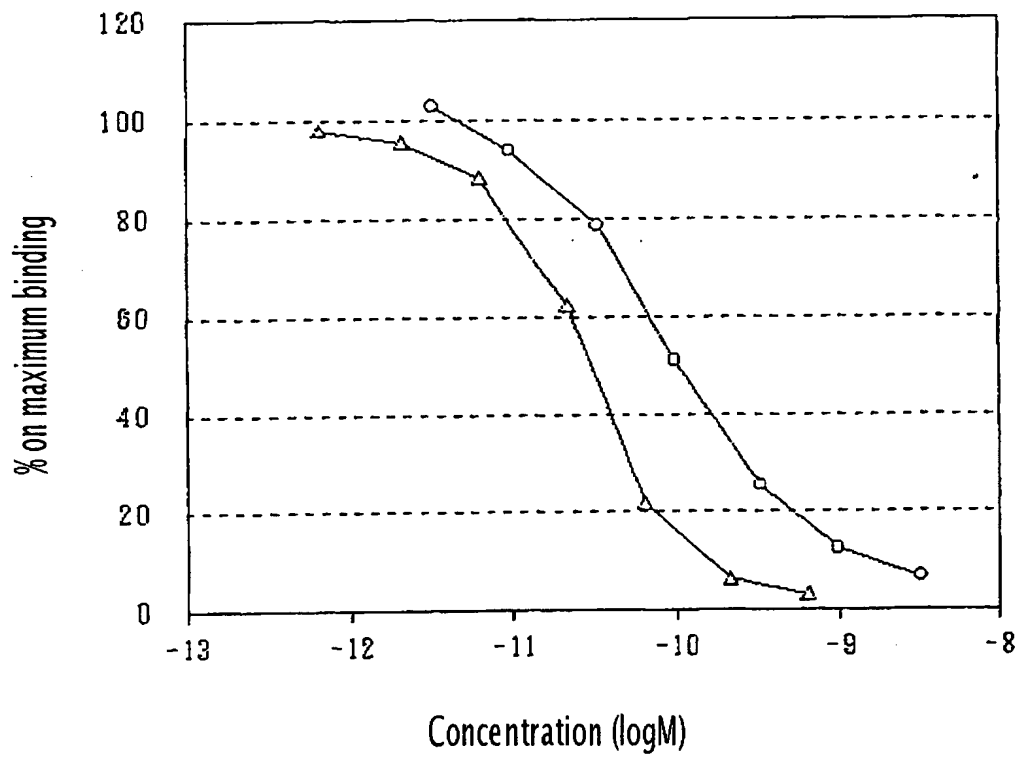
13/27

Fig. 13



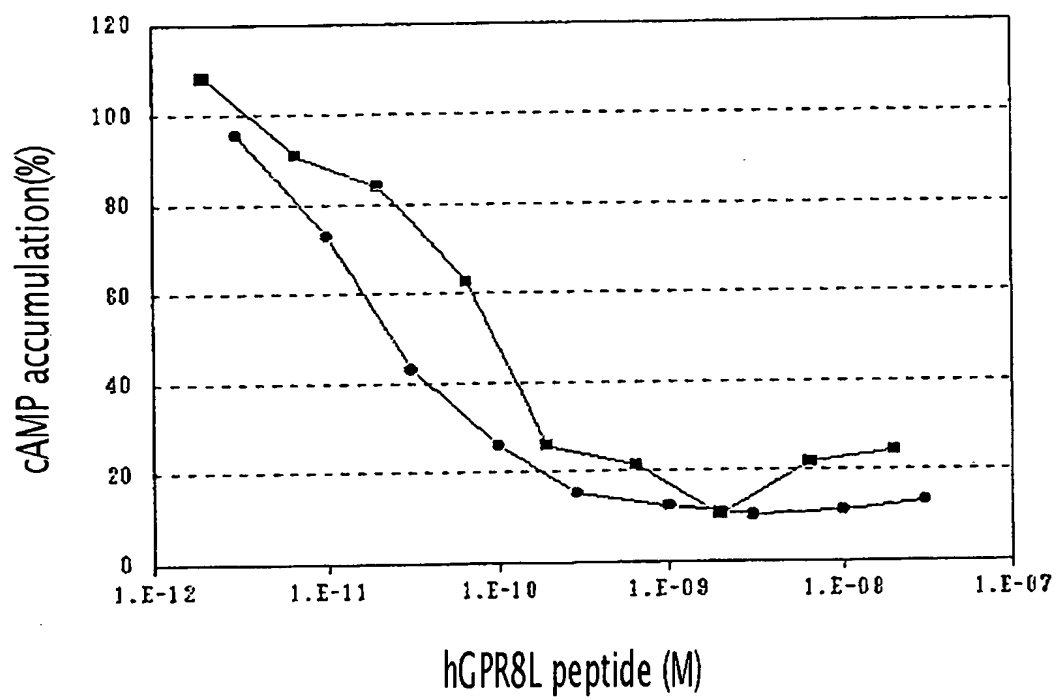
14/27

Fig. 14



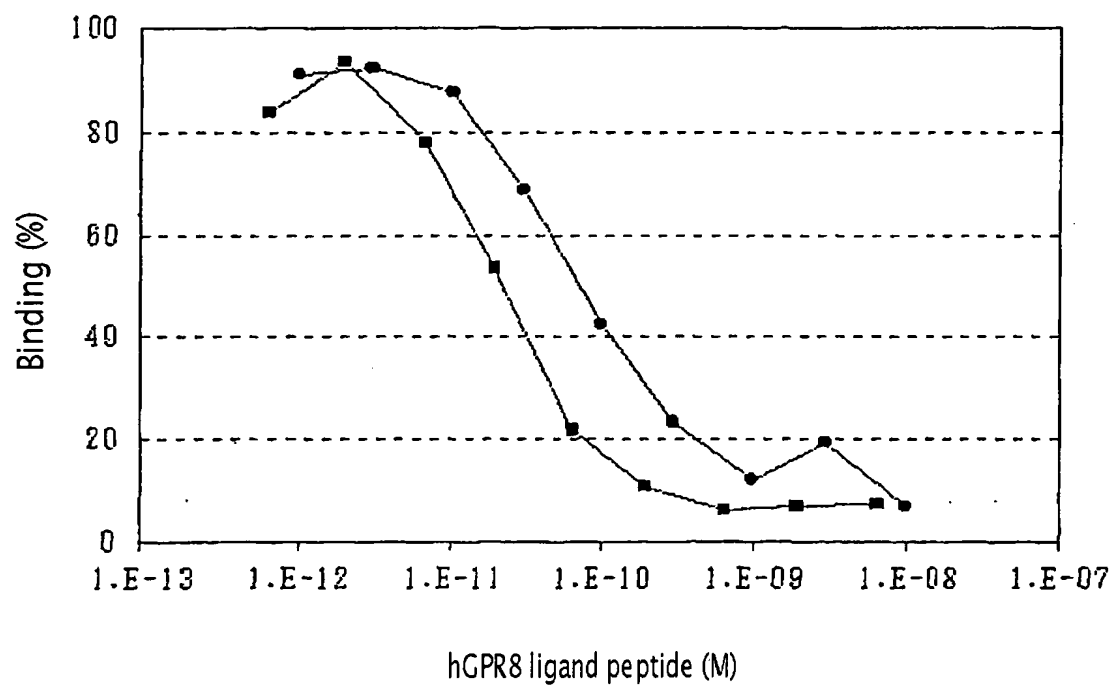
15/27

Fig. 15



16/27

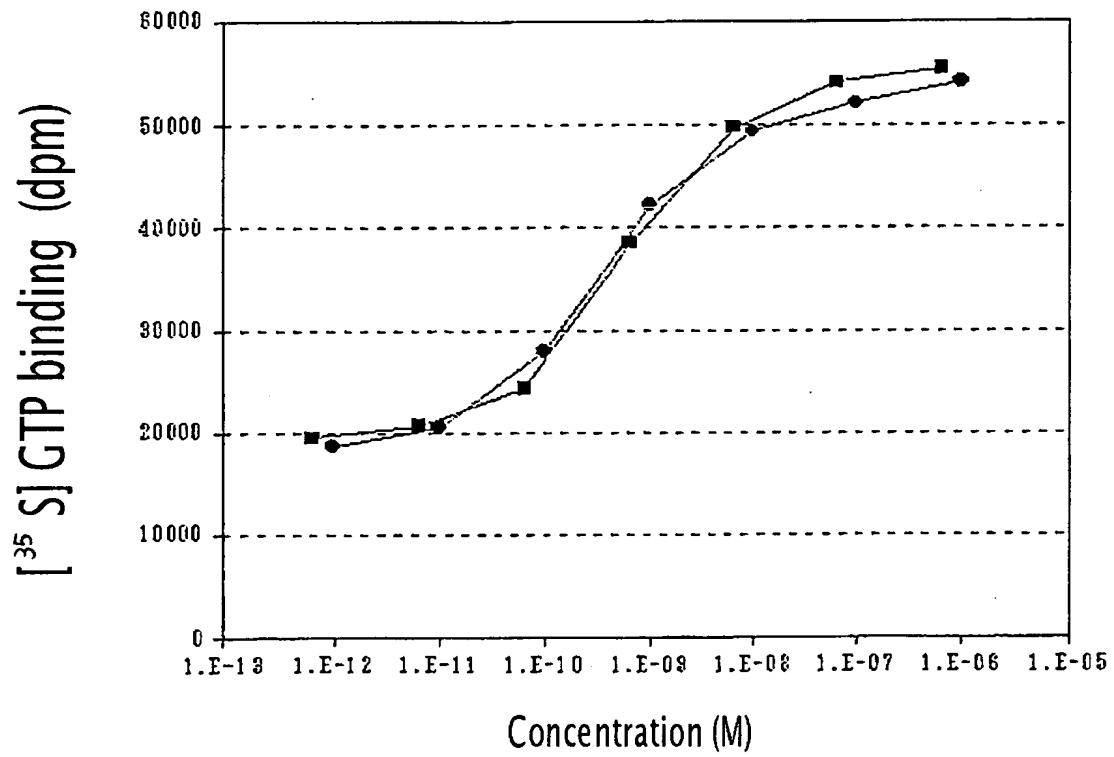
Fig. 16





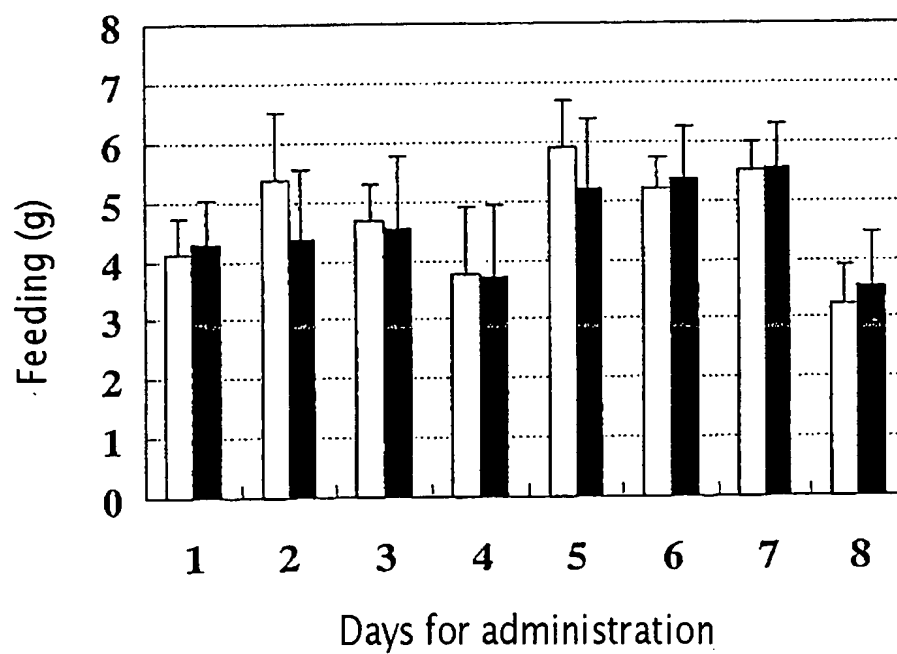
17/27

Fig. 17



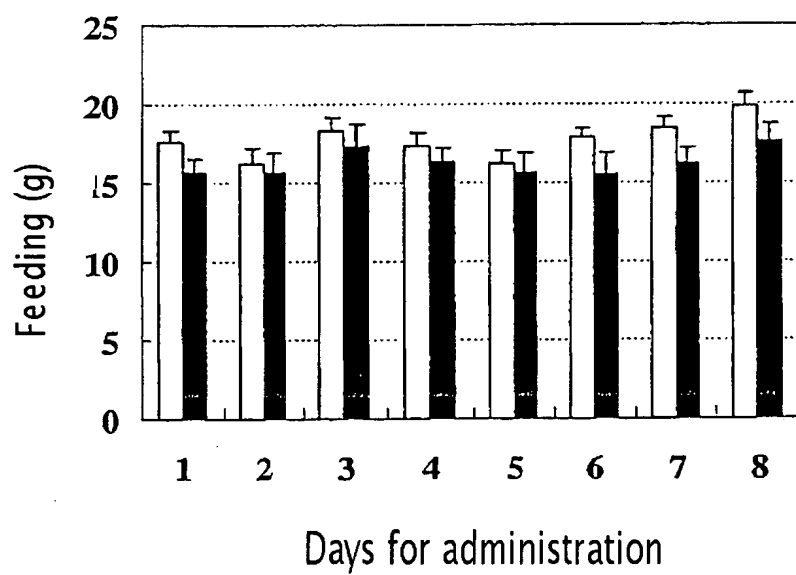
18/27

Fig. 18



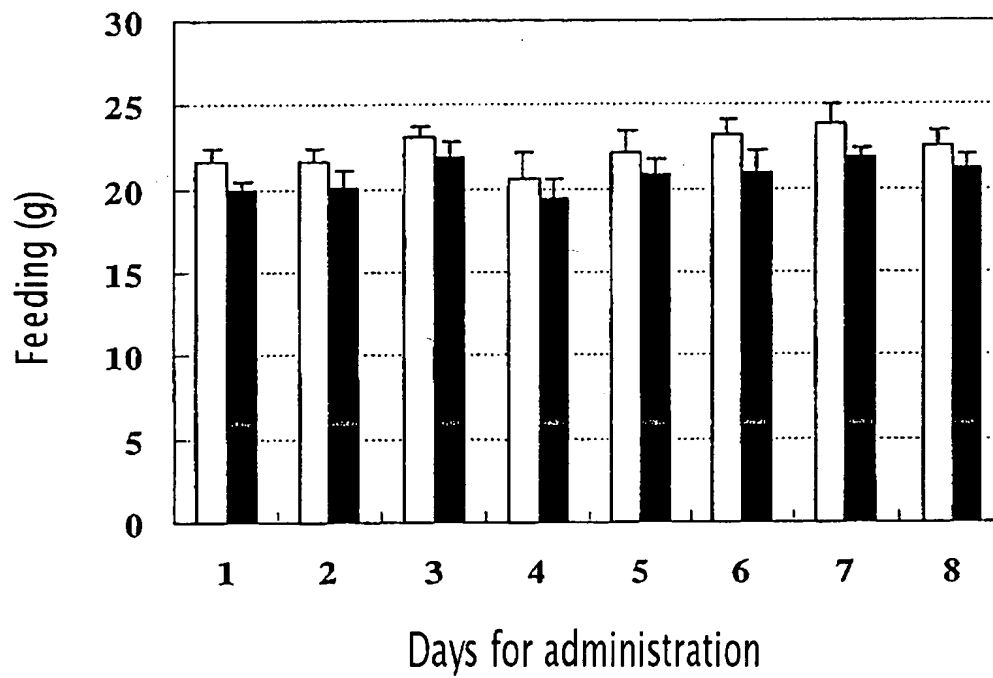
19/27

Fig. 19



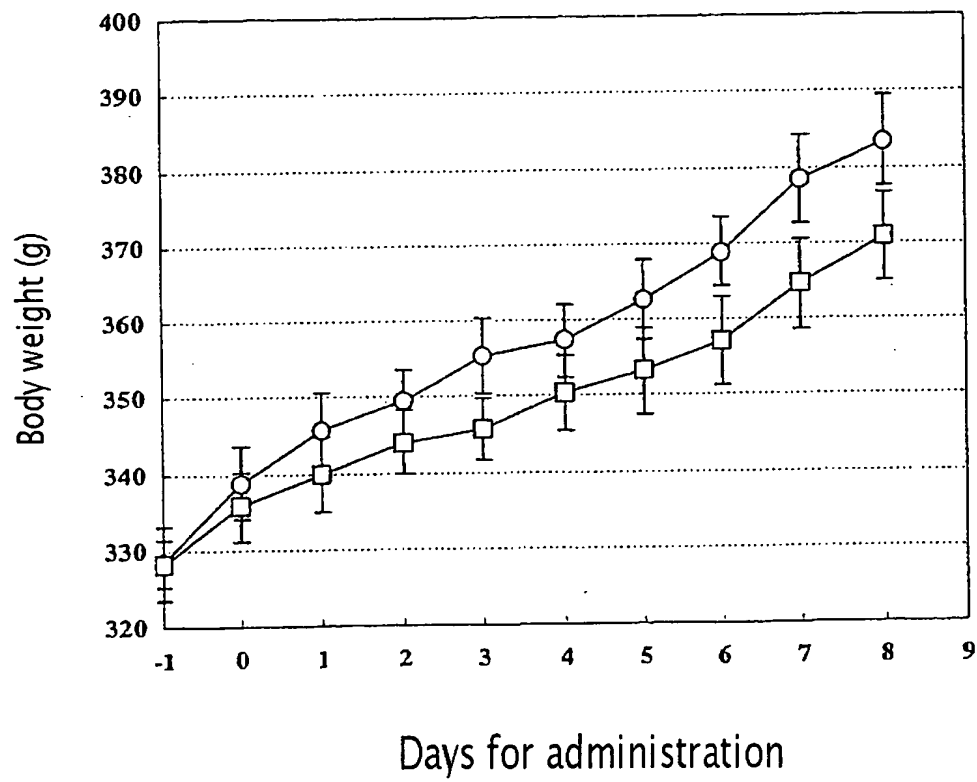
20/27

Fig. 20



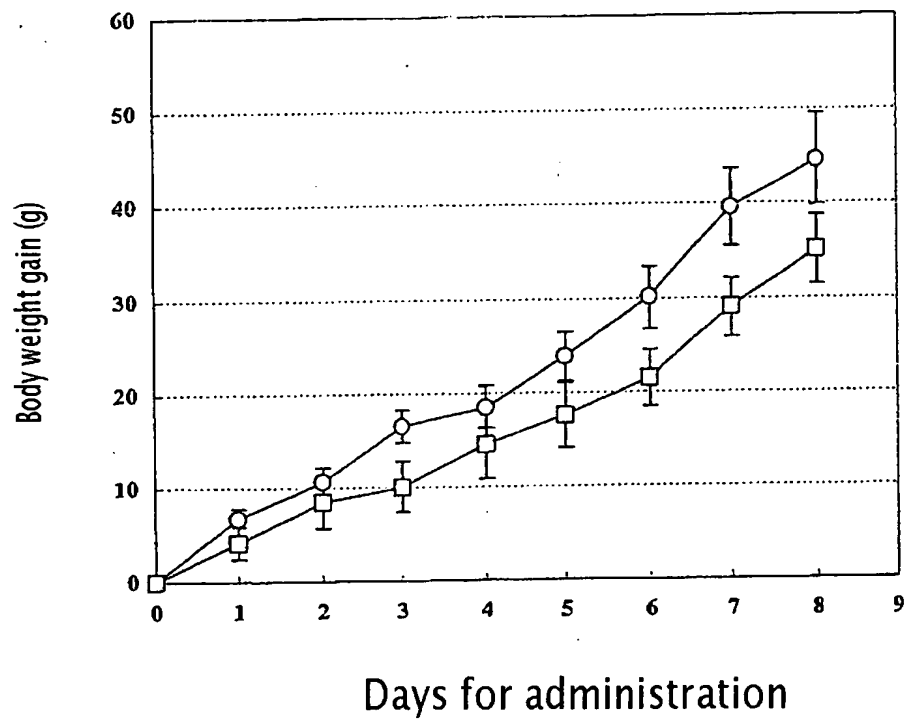
21/27

Fig. 21



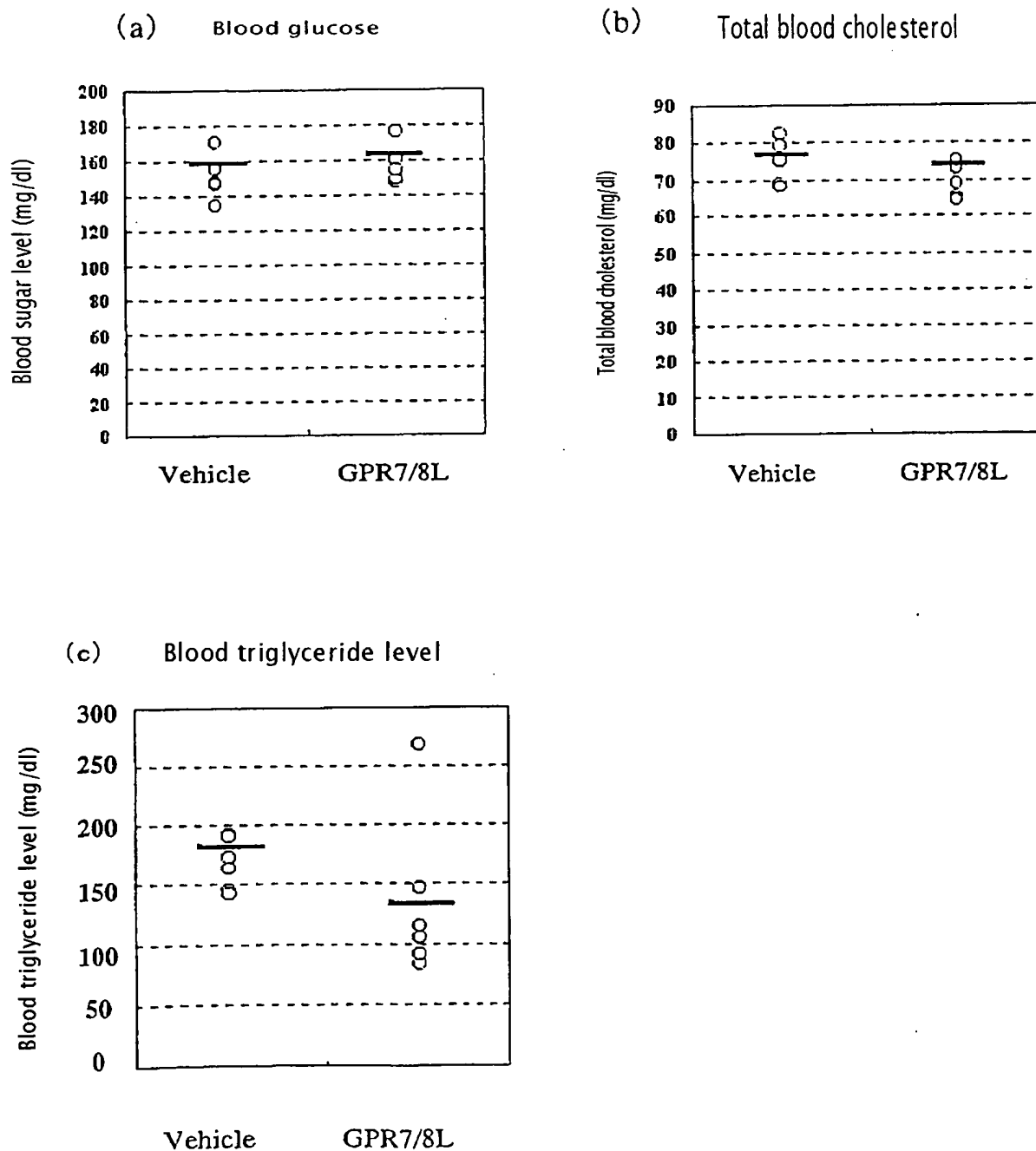
22/27

Fig. 22



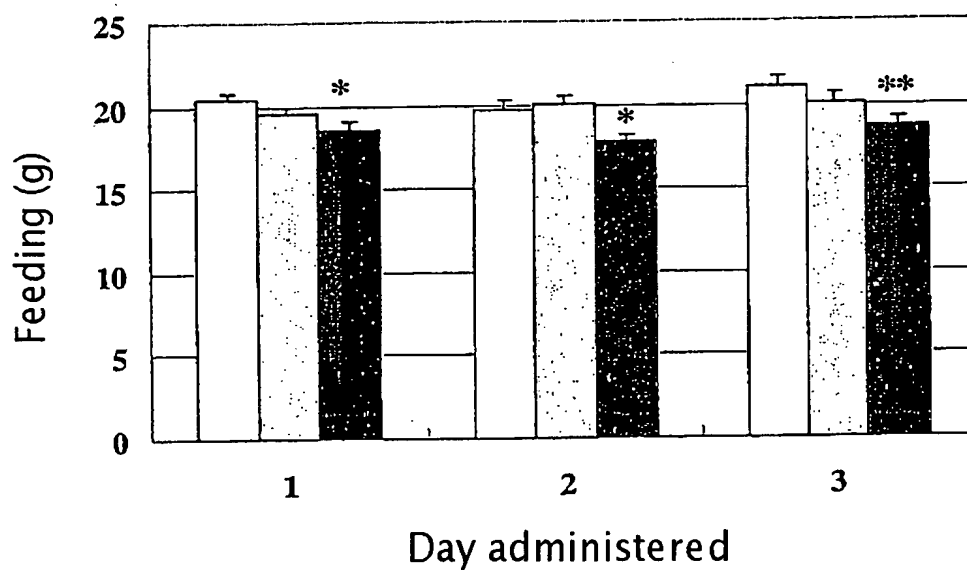
23/27

Fig. 23



24/27

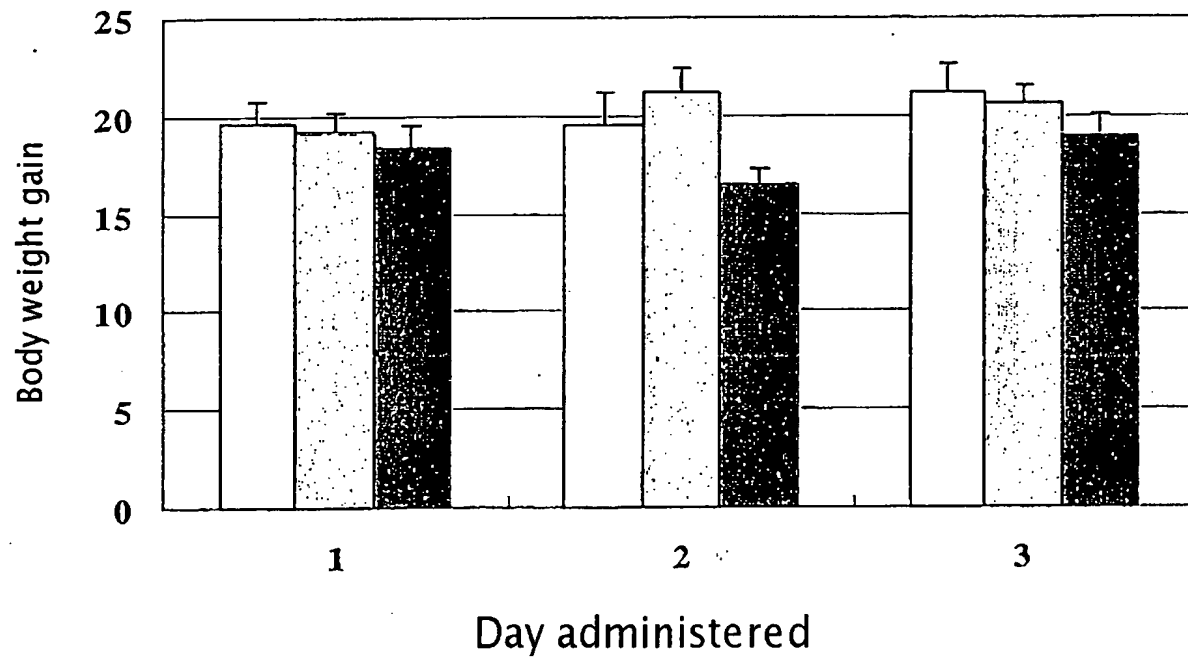
Fig. 24





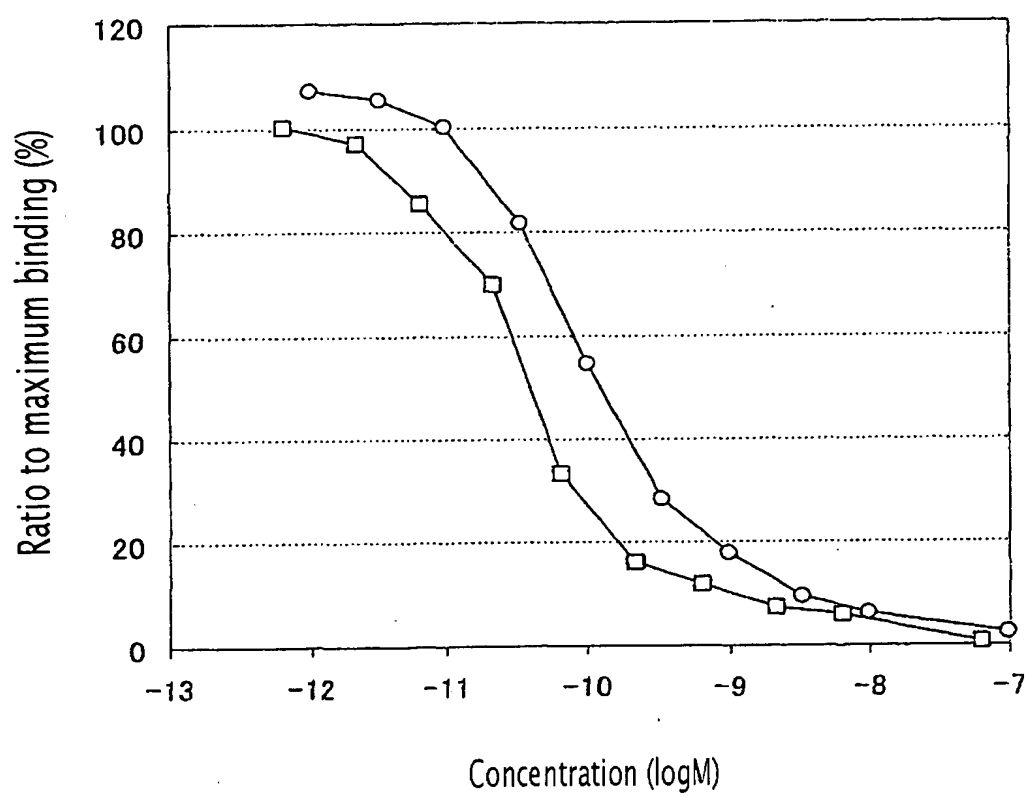
25/27

Fig. 25



26/27

Fig. 26



27/27

Fig. 27

